

# JUN 2 4 2004 8

## Replacement Sheet

	CCA		AAG	×		GTG	Λ		CIC	ᆸ		SSS	വ		$\mathtt{TTA}$	ᄀ		AGC	ഗ		ATT	Н
	CTA		AAA	×		TTT	ᄄ		TTA	ᆸ		AAA	×		GCT	А		$\operatorname{GTG}$	$\triangleright$		GCT	A
	CAC		TTT	ഥ		GIC	Λ		TTT	Ĺτι		GAC	Ω		TTG	П		CCG	А		GGG	IJ
	ACA		GCT	A		$\mathtt{GIG}$	Λ		GAT	Ω		ATT	н		CGC	<b>X</b>		AGC	ഗ		ATT	Н
	CAA		TTA	Ц		CLI	П		TTG	ᆸ		$\mathrm{TAT}$	$\succ$		TAC	$\succ$		CCI	വ		GIG	$\wedge$
	AGA		AAA	×		CCC	А		GIG	^		CLL	П		TTA	ᆸ		GGG	G		$\mathtt{TAT}$	$\forall$
	AAG		ICC	ഗ		TTA	ᄓ		TTT	ĹΤΊ		GGG			ACC	⊣		AAA	$\bowtie$		AAT	Z
	AAT		CGC	公		GAC	О		CCI	വ		ATC	H			$\triangleright$		$\mathtt{TAT}$	$\succ$		GGG	IJ
	TAT	•	GAA	[±]		AAA	×		SSS	വ		TTA	ᆸ			H		299	Ŋ		AGC	ഗ
31	TAT	91	AAC	Z	151	$_{ m LCC}$	ഗ	211	TTA	Ц	271	ATT	Н	331	CIC	ᄓ	391	CAA	0	451	GIG	Λ
	$\mathtt{TTA}$		GCA	A		CAA	Õ		SSS	വ		ATT	Н		${ m TTA}$	ᆸ		ACC	⊢		AGC	ഗ
	ACT		ATG	$\boxtimes$		TTG	<b>-</b> I		GIG	>		TTG	ᆸ		TTA	ы		TTA	ы		TTT	ᇤ
	TAA		ATT			$_{ m LIC}$	ᄄ		ATC	Н		$\operatorname{GIG}$	^		ACT	⊣		ATT	Н		GAA	Ŀ
	TTT		TAG			CGC	~		ATT	Н		${\tt TCG}$	ഗ		CCC	വ		ATG	Σ		GGG	Ü
	TAC		TTT			AAA	×		ATC	Н		CTA	ᆸ		TTC	ᄄ		AGA	$\simeq$		$\mathbb{L}\mathbb{L}$	
	CCA		TGA			TTT	뚀		BOB	A		CCG	A		GCT	А		ACT	H		909	А
	GTG		CAT			GIC	Λ		$\mathtt{TTA}$	ᆸ		ATC	Н		AGC	ಬ		ACC	⊟		ACG	⊢
	TTT		AGG			CCI	Ъ		ATT	Н		$\mathbb{I}\mathbb{C}\mathbb{I}$	ഗ		TTT	ᇤ		CCC	А		ATC	Н
	TTT		TTA			$_{ m LLC}$	ᄄ		CCG	A		ATT	Н		GAT	Ω		GIC	$\wedge$		ATT	Н
$\leftarrow$	AGC	61	AAA		121	ACT	₽	181	ATA	Н	241	ACG	₽	301	ACT	₽	361	AAT	Z	421	ATT	Н

# FIG. 2A

# JUN 2 4 2004 ES

## Replacement Sheet

m)								
	GTT V	GAT D	CTA L	GAT D	GTG V	9 9	GCC A	ACC T
	AGG R	ATT I	GCT A	9 9	9 9	ATT I	GTC V	CTC
	ACT T	GCG A	GCC A	AAA K	GTG V	ACC T	ATT I	CAG Q
	TCT S	ATG M	CGC R	GTC V	TTA L	TTA L	GGT G	ACA T
	GGT	CAA Q	CGG R	TTT F	TTT F	ATC I	ACC T	ATC I
	AAT N	AAG K	AAA K	AAA K	GGT	ACT T	CGG R	CTC
	ACT T	GGA G	AAA K	TCT		TTC	ACA T	
	GTT V	CCA P	GCT A	GCG A	ATT I	ACT T	GCG A	TCT S
	GTG V	ATG M	GAA E	66C G	ATC I	AGC S	ATT I	GCT A
٦ 1	TIA	571 GCT A	AAG K K	GAT D 751	AAT. N 811	GCT A 871	ATC I 931	FIT
	$_{\rm L}^{\rm TTA}$	GAC D	GAT D	ATG M	ATC I	AGT S	TTA L	GAC D
	AAT N	CTA L	GAT D	GCG A	CTT	E E E E	GCC A	GAG E
	GTG V	GCC	ATT I	GGT	ACG T	AGC S	CCT	GAA E
•	CTG	TTT	CTT L	TAT Y	ATC I	TTG	ATC I	GAA E
	GTG V	CGA R	999 G	TTT F	ATT I	AGC S	CAA Q	AAC N
	TTA L	GCG A	TCA S	GAT D	ATC I	ATG M	GGG G	CAA Q
	ATT I	AGG R	AAT N	GCG A	TCT	GAT D	GTA V	ACG T
	AGT S	GTT V	TTA L	GAA E	GCT A	AGG R	CTT L	ACC T
	$ ext{TTT}$	GAA E	GAT D	CAA Q	ATC I	CAA Q	GGG G	CGC R
481	ATC	541 ACT T	GCG A A 661	AGC S	GCG A 781	TTC F 841	GAT D 901	ACT

# FIG. 2B

# JUN 2 4 2004 S

## Replacement Sheet

**************************************	GGA	פ	ATT	Н		$_{ m LLC}$	ᄄ		ACA	⊏		$\mathtt{TTA}$	H		AAA	×		$\mathtt{TAT}$	$\succ$		$\mathtt{TAT}$	<b>&gt;</b> ⊣
	CCT	ч	CIG	⊣		AAA	×		ACC	H		$\operatorname{GTG}$	$\triangleright$								CAT	H
	ATT		$_{ m IGG}$				Õ		CCC	വ		GAA	ഥ				•				ACG	
	ACC	<b>-</b> 1		А		AGT									CCG	A		SCG	А		CCA	Д
	IGC	ر	ATC	Н		TTG	Ц		CAC	ж		ATT	H		$\mathtt{TTA}$	ᆸ		ATA	Н		ညည	Д
	TTT	ч	TIC	ഥ		$\mathtt{TAT}$	×		CCC	വ		CCC	А		AGC	ഗ		AAG	×		CIC	
	IGC	ر	TTA	ᆸ		AAT	Z		AAA	×		CAA	Õ		TAC	$\Xi$		AAA	X		CAA	
	TAT	<b>-</b> 1	TTT	ഥ		GAA	臼		ATC	Н		GAG	ഥ		CIC	ᆸ		AGA	24		TTA	Ы
	ATT	⊣ .	CIC	⊣		TTA	ᄓ		AAA	$\bowtie$		GAA	ĿIJ		CAG	O)		ATT	Н		AAT	Z
991	GCG ATT	1051	GCT	А	1111	AAA	$\bowtie$	1171	ICC	ഗ	1231	GAA	ഥ	1291	$\mathtt{TAT}$	$\succeq$	1351	GGT	Ŋ	1411	GAT	Ω
	999		GGG																K		AGG	<b>K</b>
	GTG	>	$\operatorname{GTA}$	Λ		CIC	П			н		AAA	×		TTA	Ы		ATT	Н		ATT	Н
	ATT	<b>-</b> 1	TTT	ᇤ		TTG	П		CCC	വ		ATT	Н		CCI	A		AGG	24		AGG	$\alpha$
	GTG	>	CCG	А		GGG	Ŋ		AAA	×		GAG	田			ᆸ		GAA	ഥ		ATT	
	TTA	<b>-</b>	TTA	⊣		GAC	Ω		GAA			GAA	ഥ		GAA	ഥ			ᄀ		CAA	Ö
	ACT	<b>-</b> 1	$_{ m LCL}$	ഗ		AAG	×		AGC	ഗ		CAA	Õ			ᆸ			ᆸ		CCL	വ
	AAA K	4	TTT	됴		GGA	ŋ		TTG	ᆸ					$\operatorname{TLL}$	ഥ니		GAT	Ω		ATG	$\Sigma$
	AGC		ACC				ഥ						×			ഥ			<b></b>		TTG	
	AAT AAA	۷	CCI	വ		AGG	<b>K</b>		TTG	ᆸ		GCT	A		ATT	Н		GGG	Ŋ		${ m LLL}$	ഥ
961	AAT	102	CIC	Ы	108.	AGC	ഗ	114.	GGC	Ŋ	120.	AGG	$\simeq$	126.	AAA	$\bowtie$	132.	CAA	O)	138.	GGT	Ŋ

# FIG. 2C

## JUN 2 4 2004 ES

## Replacement Sheet

8	TTA	ı	GCT	A		299	9		AAA	×		AAA	×		GIC	Λ		ACG	⋿		AGG	$\propto$
	TTT	Ĺτι	SCG	വ		CAA	ŏ		AAA	×		CCC	А		TCA	ഗ		GAA	됴긔		GIG	^
	AAG	×	GAG	ы		ATT	ы		$\operatorname{GIG}$	$\triangleright$		TTG	П		CGA	<b>~</b>		TTA	ᆸ		CAA	
			AAA			ATC	н		TTA	ᆸ		CGC	24		ATC	Н		ATT	Н		GAA	ഥ
	SCG	വ	ACT	⊢		CCC	A		GAA	ഥ		GAG	ഥ		CCC	A		ACT	⊢		ACC	E
	ATG	Σ	CCI	Д		GAA	ഥ		AGC	ഗ		TTA	ᆸ		GGT	Ŋ		CIC	ᄀ		TTA	Н
	GIG	>	ATT	Н		GAA	ш		ACC	⊢		CLL	П		ACC	₽		ATG	$\Sigma$		ATC	Н
	ATG	$\Sigma$	CGC	ம		AAA	又		CAC	Н		TCC	S		CCC	Д		GAC	Ω		AAT	Z
	299	<u></u> ق	GAA	ഥ		AAT	N		ACG	⊢		AAA	X		ATC	Н		AAA	×		GIG	$\triangleright$
1471	GAA	E G 1531	ATT	Н	1591	AAA	$\bowtie$	1651	GCG	A	1711	$\operatorname{GIG}$	Λ	1771	AAA	×	1831	ATT	щ	1891	GAT	Д
	GGT	ტ	GAA	ഥ		ACT	⊢		ATT	Н		GAA	ĿЛ		AAA	×		CCC	വ		AAC	N
	ATT	Н	AAA	×			ഥ								AGT	ഗ		ATC	Н		CAA	O
	GIG	>	AAT	N		ATT	Н		ACC	⊢		AAA	$\bowtie$		GAG	ഥ		AAA	×		$\mathtt{GTL}$	$\triangleright$
	ATT	Н	GIG	$\wedge$		$_{\rm IGG}$	M		AGC	ഗ		ACT	₽		GAA	ഥ		GAA	ഥ		$\mathtt{TTA}$	Н
	<u> 299</u>	Ŋ	TTT	ഥ		TTA	ᆸ		CCA	വ		ATC	Н		GTA	$\triangleright$		CAT	Н		CCA	Д
	AAG	M	GGT	G		GCT	А		GAT	Ω		${ m LLL}$	ᇤ		ATT	<b></b>		${ m TTG}$	ᆸ		909	
	CTT		ACC	⊣		GAC	Ω		ATT	$\vdash$					ACG	⊢		TTG	Ы		ATT	
	AAG	X	AAT	N		ATG	$\Sigma$		ATT	$\vdash$		GAA	ഥ		CCI	Сч		CCC	A		GAT	Ω
1	ATC	н	ATG	$\Sigma$	_	GGA	Ŋ		ACC	E⊣		GCT	А	1/583	$\mathtt{TAT}$	>-1	_	CAA	Õ		ACC	⊟
1441	GAA	E I F	CCC	Ø	156.	TTT	ᄄ	162	$\mathtt{TAT}$	$\succ$	168.	TAC	>-1	174.	GAC	Ω	180	TTG	П	186.	ATT	H

# FIG. 2D

# JUN 2 4 2004 E

## Replacement Sheet

/		_	_	-	• .	<b>.</b>	<b>.</b>		• \	
,	TTT F	ACT T	GAA E	AAT N	AGC S	TTT F	ATT	TGC	ATC	
	AAA K	9 9	TCT	CCT P	CTA L	AAC N	CAC	CAA	GCG	
	$_{ m L}^{ m TTG}$	AAT N	GTC V	GAG E	GTG V	ATT I	TCA	ATC	AAC	
	CGT R	GAA E	GCG A	GTA V	ATC I	CAT H	CTT	AAT	TTA	
	999 9	CGA R	GAA E	ATC I	GTA V	ATC I	CAC	AAA	ATT	
	GAC D	$_{\rm L}^{\rm TIG}$	ATT I	${ m TTG}$	GAT D	ACG T	TAT	TTT	GAG	
	GAA E	AAA K		ATT I	ATT I	9 9	GTT	TTT	TAT	ŗ
	TCT S	AAT N			AGG R	TTA L	CAA	CAA	ATT	( (
	AAA K					GCC	ATG	AAA	AGA	{ E
1951	TTT AAA F K	TTG L 2071	TTG TTG 131	GCT A A	CAG CAG O	CAA GAA E	ATG	2371 TCA	2431 GCG	2491
	GCT A	TTT F		ATC I	GAG E	TT T	AGA	GTT	TCA	E F
	AAC N			GGG G	ATG M	AAT N	AGG	CTT	GTC	E E
	ACT T	GAA E	GTG V	AAA K	CAA Q	TCT	AAA	CAG	GAA	C E
	ATC I	AGC S	AAT N	CAA Q	AAT N	AAC N	TAA	JGC	CGT	f f
	GTG V	GAT D	CIC	TTG	TCT	CCT P	TGA	GCA	GGG	í (
	AGG R	ACC T	$_{\rm L}^{\rm CTA}$	GTC V	CTT	GAT D	AAT	TAT	TAC	ŕ
	TCT	TCT		AAA K	GCC	$_{\rm L}^{\rm TA}$	AAT	299	AAT	; ;
	CTT	TTT F		TG I	AAA K	GAA E	ATA	GAC	GCT	E (
		ACC	AAG K	GCC	L R K	GCT		TTA	AAC	
1921	GCG AGG A R 1981	TTA L 2041	TCT S 2101	GAG EAG 2161	TTA L	CAT H 7001	TAA	2341 GAT	2401 TAT	2461

# GCT CAA TCT AAA GAG AGT GAA TTC CTT ATT TTG ATT AGC GA FIG. 2E

	GS CCF1bF IS YpLcrD		LA SIMX1A	
MANKRS-KLAFKKTFPVFF MAKNKIVDLVFPFLGPLI <i>P</i>	1 MADAAAPNASSMPSAKSLLDGLMRGEMGLALGVVGIIVLLIIPVPAPLLDVLLAISLTGS 1MNPHDLEWLNRIGERKDIMLAVLLLAVVFMMVLPLPPLVLDILIAVNMTIS	1MLLSLLNSARLRPRLLILVLMVMIISMFVIPLPTYLVDFLIALNIVLA	1	

	*	** *	
SfMxiA	DADRGKIITTFG	ILVFMGSFYIERILSFSTFPSVLLITTLFRLALSISTSRLILVDADRGKIITTFG	29
StInvA	EADAGEIIATFG	ILVFMGSFYIDRILSFSTFPAVLLITTLFRLALSISTSRLILI	49
YpLcrD	QADAGQIVYTFG	VVLLMIAIYINSPLQFSAFPAVLLVTTLFRLALSVSTTRMILLQADAGQIVYTFG	52
CCF1bF	HGQEGTGGAGAVIEAFG	VLILMTAILIKKPLEFTSFPTVLLVTTLFRLGLNIASTRLILSHGQEGTGGAGAVIEAFG	61
CjFlbA	EGONGPEAVSEIIAAFG	VLIILISIYIPKPTDLTTFPTLILITLFRLSLNIATTRMILSEGONGPEAVSEIIAAFG	61
HpF1bA	QGYKGPSAVSIIITAFG	VLIILIGLYIDKPTDFSAFPTLLLIVTLYRLALNVATTRMILTQGYKGPSAVSIIITAFG	9

CjFlbA YpLcrD CCFlbF StInvA EFVVGGNMVIGVIVFCILVLINFMVVTKGSTRVSEVQARFTLDAMPGKQMAIDADLNAGL HLMMQGNFVIGVIVFIILIVVNFMVVTKGSGRIAEVAARFTLDSMPGKQMAIDADLSTGL NFVVGGNLIVGIVIFLIITIVQFLVITKGSERVAEVSARFSLDAMPGKOMSIDGDMRAGV QFVIGDSLAVGFVVFSIVTVVQFIVITKGSERVAEVAARFSLDGMPGKQMSIDADLKAGI QFVIGDSLAVGFVIFSIVTVVQFIVITKGSERVAEVAARFSLDGMPGKQMSIDADLKAGI \*\*\* \*\* 121 107

EFSVSGNYVIGAIIFSILVLVNLLVVTNGSTRVTEVRARFALDAMPGKQMAIDADLNSGL

## FIG. 3A

CCF1bF YpLcrD

StInvA

CjFlbA

IVGAIYC-FCTIPGLPTFSLAFVGALFLFIAWLISREGKDGLLTKLENYLSQKFGLDLSE VGFVLFI-FALVPGLPTLSLGFMALVFLSLGYLTKQVKEGKI-----DITTVKKSKPSAA

SGALSTYTILTIGDGLVSQIPALLISISAGFMLTRVNGDSDN-MGRNIMSQIFGNPFVLI

\* \* \* .

IGGVLLLLFGLIPGFPTVTFLILALLVGCGGYMLSRKQSRNDEANQDLQSILTSGSGAPA

SASSG-I-IALIPGMPIFPFAAMALA----

87

VTAILTISMGTLPGFPLPVFVILSVVLSVLFYFKFREAKRSAAKPKTSKGEQPLSIEEKE

VTSALALAIGMLPGFPFFVFFLIAVTLTALFYYKKVVEKEKSLSESDSSGYTG-

STTNVA	4 SSALSTYTMLTIGDGLVAOIPALLIAISAGFIVTRVNGDTDN-MGRNIMTOLLNNPFVIV STINVA	224
YpLcrD	7 AEALQLYSILTVGDGMVSQVPALLIAITAGIIVTRVSSEDSSDLGSDIGKQVVAQPKAML	227
CCFlbF		241
CjFlbA		241
HpF1bA	O SFSASTFTILTIGDGLVGQIPALIIATRTGIVATRTTQNEEEDFASKLITQLTNKSKTLV	240
	* * * * * * * * * * * * * * * * * * * *	
SfMxiA	IDAAGAKERRSILERESQLYGSFDGAMKFIKGDAIAGIIIIF	144
StInvA	4 IDADAARERRSVLERESQLYGSFDGAMKFIKGDAIAGIIIIFVNFIGGISVGMTRHGMDL	164
YplcrD		167
CCFlbF	1 ISQDEAKIRRKELEQESTFFGAMDGASKFVKGDAIAGLIITAINIIGGIIIGVVQHKMPF	181
CjFlbA	1 IDEQTARARRQEVIAEANFYGAMDGSSKFIKGDAVAGIIITIINIIGGFLIGSFQHDMAL	181
HpF1bA	) IDDKEAKKRRAALSQEADFYGAMDGASKFVKGDAIASIIITLINIIGGFLVGVFQRDMSL	180

## FIG. 3B



359 KPHSSKIKPHAPTTRAKTQEEIKREEEQAIDEVLKIEFLELALGYQLYSLADMKQGGDLL 355 VASOSGAGGTTAAPAKKSEEEILKEEEHKINDILKVEILELGYGLIKLAENELT	QAIDEVLKIEFLELALGYQLYSLADMKQGGDLL HKINDILKVEILELELGYGLIKLAENELT	HpF1bA CiF1bA
	EPISASLAIDDVKIELGYGLLTLINDLDGRKLT	CCFIDE
347 ARTKAKTSGANKGRLGEQEAFAMTVPLLIDVDSSQQEALEANALN	LIDVDSSQQEALEANALN	YpLcrD
343 GSSLGLIGDLDKVSTE	TVPLILLVPKSRREDLEKA	StInvA
316	DIDNTHDSSLAMIENLDRISSETVPLILLFAENKINANDME	SfMxiA
*	*	
419 ERIRGIRKKIASDYGFLMPQIRIRDNLQLPPTHYEIKLKGIVIGPGMVMPDKFLAMNTGF	<b>QLPPTHYEIKLKGIVIGPGMVMPDKFLAMNTGF</b>	HpFlbA
411 ERIRSMRRSIAESLGFLMPKIRIRDNLRLKPNEYSFKLKGVS	KIRIRDNLRLKPNEYSFKLKGVSIASAEIYPDKYLAMDSGF	CjFlbA
391 DQIRALRKTLASEYGFVMPPVRILDNMRLANQGYAIRIKEME	PVRILDNMRLANQGYAIRIKEMEAGAGEVRLGCLMCMDPRG	CCFlbF
392 DELVRVRRALYLDLGVPFPGIHLRFNEGMGEGEYIISLQEVPVARGELKAGYLLVRESVS	SMGEGEYIISLQEVPVARGELKAGYLLVRESVS	YplcrD
378 QLAERLRSQFFIDYGVRLPEVLLRDGEGLDDNSIVLLINEIRVEQFTVYFDLMRVVNY	SLDDNSIVLLINEIRVEQFTVYFDLMRVVNY	StInvA
359 GLIERIRSQFFIDYGVRLPTILYRTSNELKVDDIVLLINEVRADSFNIYFDKVCITDENG	ELKVDDIVLLINEVRADSFNIYFDKVCITDENG	SfMxiA

YpLcrD CCF1bF StInvA ITEEIEGIATKEPAF--NSDALWIDANLKDEATLNGYIVIDPASVISTHMSELIKAHASE GOVELPGEHVREPAF--GLPATWIADDLREEATFRGYTVVDPATVLTTHLTEILKENMAD VNKEIEGIPTKEPAF--GMDALWIETKNKEEAIIQGYTIIDPSTVIATHTSELVKKYAED QLELLGIPYEKGEHLLPDQEAFWVSVEYEERLEKSQLEFFSHSQVLTWHLSHVLREYAED SDEVVSFGINPTIHQQGSSQYFWVTHEEGEKLRELGYVLRNALDELYHCLAVTVARNVNE DIDALGIPVVSTS--YNERVISWVDVSYTENLTNIDAKIKSAQDEFYHQLSQALLNNINE 452 436

## FIG. 3C

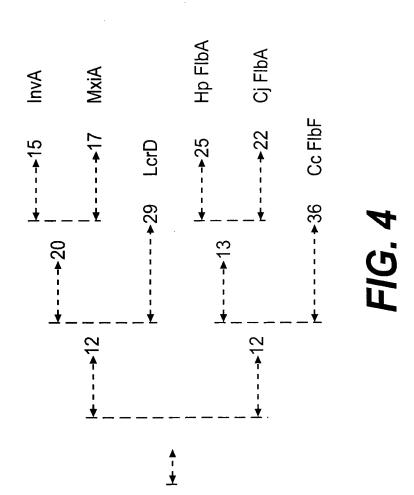
HPF1bA	HPF1bA	HPF1bA
CJF1bA	CJF1bA	CJF1bA
CCF1bF	CCF1bF	CCF1bF
YPLCrD	YPLCrD	YCLCLD
StInvA	StInvA	STRNVA
SfMxiA	SfMxiA	SFMXiA
537 FITKDEVKSLLERLAKDYPTIVEESK-KI-PTGAIRSVLQALLHEKIPIKDMLTILETIT 529 LLTRQEVONLLDKVKNDYPIIVEGAL-GVAPVSLIOKILKDLLKHHIPIKDMLTILESVS 509 LLSYÄEVÖKLLKELPETOKKLVDDLIPGTVTATTVÕRVLOSLLRERVSIRDLPQILEGVG 512 FIGIQETRYLLEQMEGGYGELIKEVOR-IVPLORMTEILÖRLVGEDISIRNMRSILEAMV 496 YFGIÖETKHMLDÖLEAKFPDLLKEVLRH-ATVÖRISEVLÖRLLSERVSVRNMKLIMEALA 477 IFGIÖETKNMLDÖLEAKFPDLLKEVFRHV-TIÖRISEVLÖRLLGENISVRNIKLIMESLA	595 DIAPLVONDVNILTEQVRARLSRVITNAPKSEDGRLKFLTFSTDSEQFLLNKLRENGTSK 588 DIAR-VSKSFDMIIEKVRASLARMITNMYLDDKGNLDIFILDSASSAVLMENVQFRDGSY 569 EAAPHTA-SVTQLVEQVRARLARQLCWANRGDDGALPIITLSADWEQAFAEALIGPGDDK 571 EWGQK-EKDVVQLTEYIRSSLKRYICYKYANGNNILPAYLFDQEVEEKIRSGVRQTSAGS 555 LWAPR-EKDVINLVEHIRGAMARYICHKF-ANGGELRAVMVSAEVEDVIRKGIRQTSGST 536 LWAPR-EKDVITLVEHVRASLSRYICSK-IAVSGEIKVVMLSGYIEDAIRKGIRQTSGGS	655 SLLLNVGELOKLIFAVSEEAMKVLOKGIAPVILIVEPNLRKALSNOMEOARIDVIVLSHA 647 HLPLSVAQTGTLVDTLRAEVAAVANGRIKPFILCVEPOLRKFIADĪCYNFSINIVVLSFA 628 QLALPPSRLODFIRGVRDSFERAALAGEAPVLL-TSPGVRPYVRSIIERFRGOTVVMSQN 630 YLALEPAVTESLLEQVRKTIGDLSQIQSKP-VLIVSMDIRRYVRKLIESEYYGLPVLSYQ 613 FLSLDPFASANLMDLITLKLDDLLIAH-KDLVLLTSVDVRRFIKKMIEGRFPDLEVLSFG 594 FLNMDIEVSDEVMETLAHALREL-RNAKKNFVLLVSVDIRRFVKRLIDNRFKSILVISYA * * *

ELDPNSNFEALGTIHINF
7 EIAENTNFNTEGIIRIEL
7 EIHPRARLKTVGMV---9 ELTQQINIQPLGRICL-2 EIADSKSVNVIKTI---3 EIDEAYTINVLKTI----

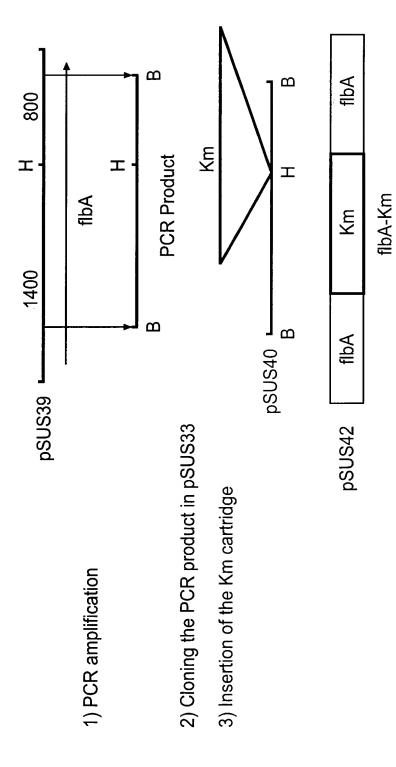
HOPETORY CCTED BY CCTED BY YOUR STUDY STUDY BY COME BY

FIG. 3D







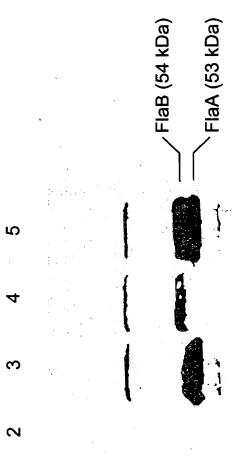


4) Electroporation in H. pylori N6

FIG. 5



## LEST AVAILABLE COPY



F/G. 6



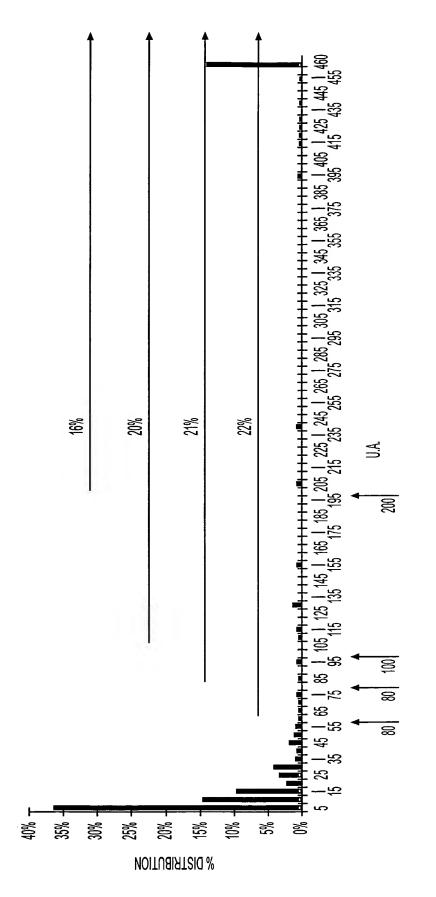
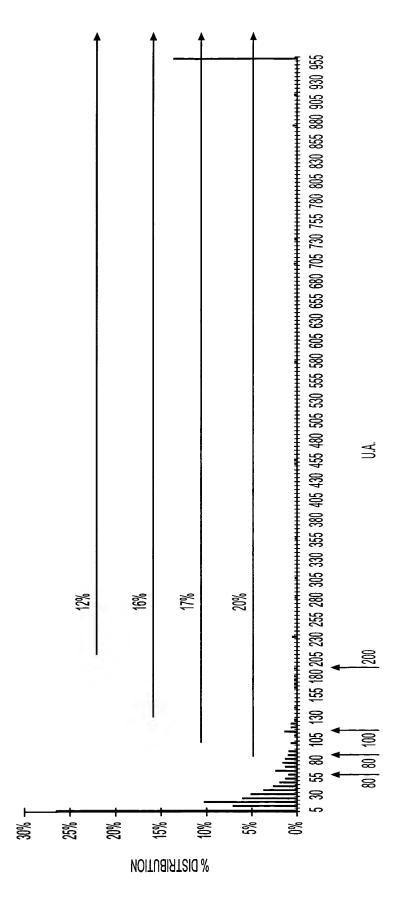


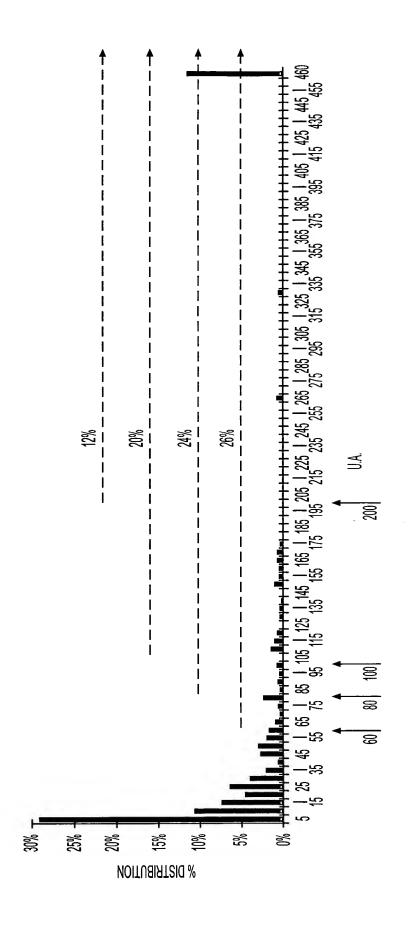
FIG. 7



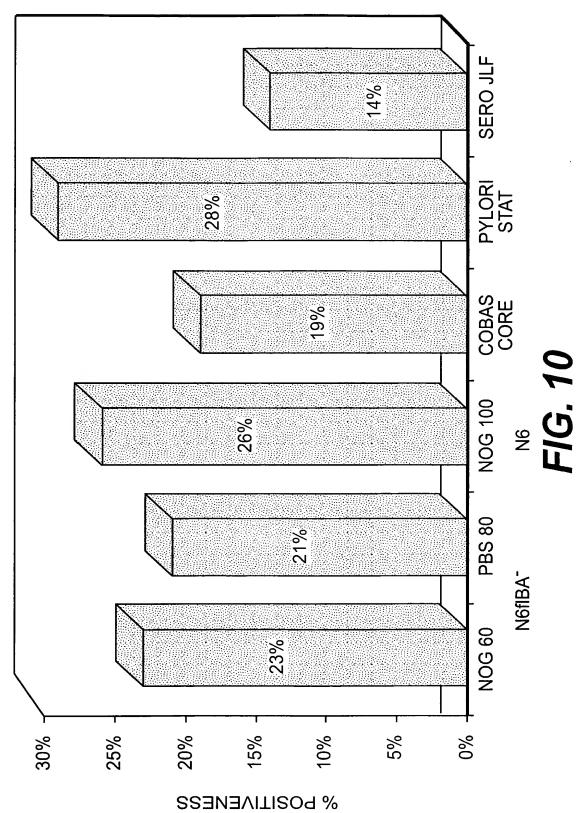


F/G. 8

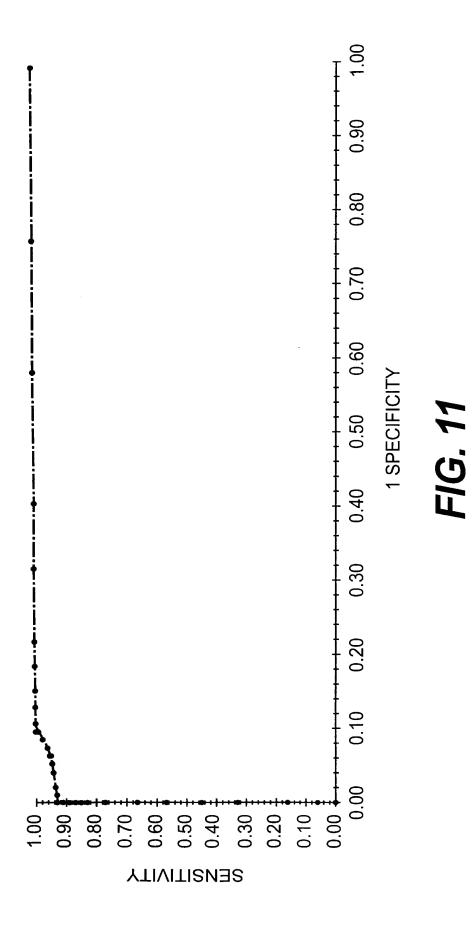




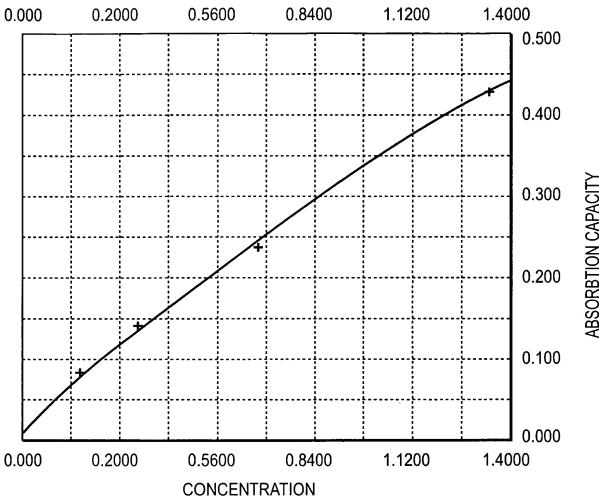












TYPE OF EXTRACT	DO @ 750nm	CONCENTRATION IN mg/ml
GLYCINE (AFTER CENTRIFUGATION FOR 15 min @ 3000 g)	0.028	0.284
N-OCTYL-GLYCOSIDE	0.087	1.004
SUPERNATANT 1 (AFTER 1ST PBS WASHING)	0.059	0.844
SUPERNATANT 2 (AFTER 2nd PBS WASHING)	0.015	0.1105

FIG. 12



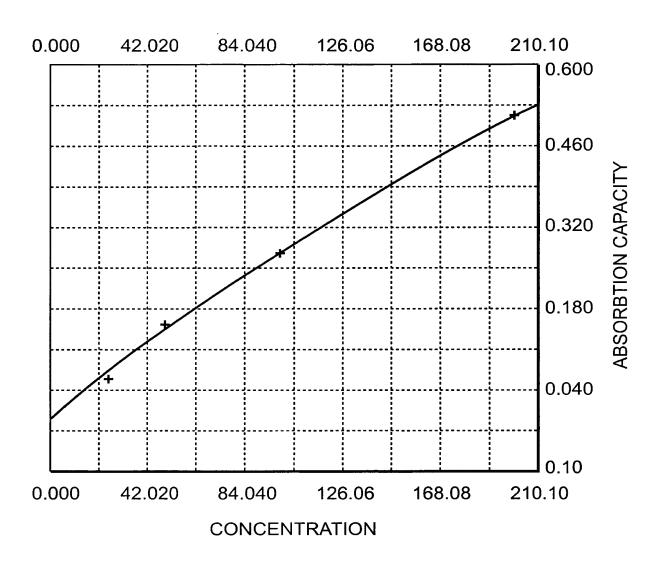
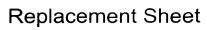


FIG. 13(A)





TYPE OF EXTRACT	DO @ 760 nm	CONCENTRATION IN µg/ml
GLYCINE (AFTER CENTRIFUGATION FOR 15min @ 3000g)	0.279	202.86
N-OCTYL-GLUCOSIDE	0.243	873.99
SUPERNATANT 1 (AFTER 1ST PBS WASHING)	0.361	539.2
SUPERNATANT 2 (AFTER 2ND PBS WASHING)	0.218	77.875

TYPE OF EXTRACT	DO @ 760 nm	CONCENTRATION IN µg/ml
GLYCINE RESIDUE (AFTER 15 min OF CENTRIFUGATION AT 3000g)	0.099	297.5
GLYCINE RESIDUE (AFTER EXTRACTION)	0.093	2778.7
N-OCTYL-GLUCOSIDE (AFTER EXTRACTION)	0.275	972.0

FIG. 13B